Freeform Search

Database:

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US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
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Term: ('20020023215'| '2747794') [ABPN1,NRPN,PN,TBAN,WKU]

Display: 10 Documents in **Display Format:** - Starting with Number 1

Generate: ○ **Hit List** ◉ **Hit Count** ○ **Side by Side** ○ **Image**

[Search] [Clear] [Interrupt]

Search History

DATE: Tuesday, January 17, 2006   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
L9	('20020023215'| '2747794')[ABPN1,NRPN,PN,TBAN,WKU]	6	L9
L8	('20020023215'| '2747794')[URPN]	0	L8
L7	L6 and (cell$ and transaction)	2	L7
L6	L1 or l2	29	L6
L5	Li or l2	2165583	L5
L4	l2 not l1	8	L4
L3	L2 and l1	7	L3
L2	PEAD$ AND authori$ and @ad<=20020128	15	L2
L1	PEAD$ AND authori$ and @pd<=20020128	21	L1

(handwritten: reviewed)

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 8 of 8 returned.

□ 1. Document ID: US 20030004827 A1

Using default format because multiple data bases are involved.

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L4: Entry 1 of 8                        File: PGPB              Jan 2, 2003


PGPUB-DOCUMENT-NUMBER: 20030004827
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030004827 A1


TITLE: Payment system


PUBLICATION-DATE: January 2, 2003


INVENTOR-INFORMATION:
NAME                            CITY             STATE       COUNTRY
Wang, Ynjiun P.                 Cupertino        CA          US


US-CL-CURRENT: 705/26
```

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

□ 2. Document ID: US 20020123967 A1

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L4: Entry 2 of 8                        File: PGPB              Sep 5, 2002


PGPUB-DOCUMENT-NUMBER: 20020123967
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020123967 A1


TITLE: Methods of exchanging secure messages


PUBLICATION-DATE: September 5, 2002


INVENTOR-INFORMATION:
NAME                            CITY             STATE       COUNTRY
Wang, Ynjiun P.                 Cupertino        CA          US


US-CL-CURRENT: 705/51; 705/64
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

□ 3. Document ID: US 20020023215 A1

PGPUB-DOCUMENT-NUMBER: 20020023215
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020023215 A1

TITLE: Electronic transaction systems and methods therefor

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Ynjiun P.	Cupertino	CA	US
Ding, Joshua C.	San Jose	CA	US
Grizzard, James A.	San Jose	CA	US

US-CL-CURRENT: 713/171; 380/259, 380/277, 713/184

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw C- |

□ 4. Document ID: US 6850916 B1

US-PAT-NO: 6850916
DOCUMENT-IDENTIFIER: US 6850916 B1

TITLE: Portable electronic charge and authorization devices and methods therefor

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

□ 5. Document ID: US 6594759 B1

US-PAT-NO: 6594759
DOCUMENT-IDENTIFIER: US 6594759 B1

TITLE: Authorization firmware for conducting transactions with an electronic transaction system and methods therefor

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

□ 6. Document ID: AU 2002367640 A1, US 20020123967 A1, WO 2003081377 A2

DERWENT-ACC-NO: 2002-740281

DERWENT-WEEK: 200432
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TITLE: Internet-based secure message reception method involves decrypting digital data representing secure message if share secret is found in share secret table in portable electronic <u>authorization</u> device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐   7.   Document ID: CN 1366263 A

L4: Entry 7 of 8   File: DWPI   Aug 28, 2002

DERWENT-ACC-NO: 2003-020344
DERWENT-WEEK: 200302
COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Electronic trade system and its method business transaction between an electronic trading system with electronic service <u>authorization</u> signature being used and a portable electronic <u>authorization</u> device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐   8.   Document ID: AU 2002247213 A1, US 20020023215 A1, WO 200269291 A2, TW 560159 A

L4: Entry 8 of 8   File: DWPI   Sep 12, 2002

DERWENT-ACC-NO: 2002-267483
DERWENT-WEEK: 200433
COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Electronic transaction request approval in portable electronic <u>authorization</u> device, involves decrypting private key of specific user of <u>PEAD</u> using decryption key of remote server, if transaction request is user approved

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L2 not L1	8

Display Format: |-_____| | Change Format |

L9: Entry 3 of 6   File: DWPI   Sep 12, 2002

DERWENT-ACC-NO: 2002-267483
DERWENT-WEEK: 200433
COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Electronic transaction request approval in portable electronic authorization
device, involves decrypting private key of specific user of PEAD using decryption
key of remote server, if transaction request is user approved

INVENTOR: DING, J C; GRIZZARD, J A ; WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), DING J C (DINGI), GRIZZARD J A (GRIZI), WANG Y
P (WANGI)

PRIORITY-DATA: 2001US-0792224 (February 23, 2001), 1996US-0759555 (December 4,
1996), 1998US-0067176 (April 27, 1998), 2000US-0523825 (March 13, 2000), 2000US-
0668213 (September 22, 2000)

▓▓▓Search Selected▓▓▓   ▓▓▓Search ALL▓▓▓   ▓▓▓Clear▓▓▓

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	AU 2002247213 A1	September 12, 2002		000	G07F019/00
☐	US 20020023215 A1	February 21, 2002		035	H04L009/00
☐	WO 200269291 A2	September 6, 2002	E	000	G07F019/00
☐	TW 560159 A	November 1, 2003		000	H04L009/32

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN
TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE
LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002247213A1	February 22, 2002	2002AU-0247213	
AU2002247213A1		WO 200269291	Based on
US20020023215A1	December 4, 1996	1996US-0759555	Cont of
US20020023215A1	April 27, 1998	1998US-0067176	CIP of
US20020023215A1	March 13, 2000	2000US-0523825	CIP of
US20020023215A1	September 22, 2000	2000US-0668213	CIP of
US20020023215A1	February 23, 2001	2001US-0792224	
US20020023215A1		US 5917913	Cont of
US20020023215A1		US 6175922	CIP of

US20020023215A1

WO 200269291A2　　　　February 22, 2002

TW 560159A　　　　　　July 12, 2001

US 6282656　　　　CIP of

2002WO-US05701

2001TW-0117080

INT-CL (IPC): <u>G07</u> <u>F</u> <u>19/00</u>; <u>H04</u> <u>K</u> <u>1/00</u>; <u>H04</u> <u>L</u> <u>9/00</u>; <u>H04</u> <u>L</u> <u>9/32</u>; <u>H04</u> <u>L</u> <u>12/00</u>

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-740281 ;2003-220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020023215A
BASIC-ABSTRACT:

NOVELTY - The portable electronic authorization device (PEAD) (200) receives the transaction request in the form of digital data. If the transaction request is approved by a user of the PEAD, the private key of the specific user is decrypted using the decryption key of a remote server. The decrypted digital data is transmitted to the electronic transaction system for encryption by the user private key.

USE - For electronic transactions through computer networks like Internet, automated teller machines, automated point-of-sale systems and automated library systems.

ADVANTAGE - Eliminates risk of unauthorized access to the account of the user and unauthorized procurement of user identity. Is portable and permits user to perform transaction authentication, conveniently and comfortably.

DESCRIPTION OF DRAWING(S) - The figure shows the PEAD for securely approving transactions conducted by electronic transaction system.

Portable electronic authorization device 200

ABSTRACTED-PUB-NO: US20020023215A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/13

DERWENT-CLASS: T01 T05 W01
EPI-CODES: T01-N01A1; T05-L01D; T05-L02; T05-L03C1; W01-A05B;

Hit List

Clear | Generate Collection | Print | Fwd Refs. | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1.   Document ID: US 20020023215 A1

L9: Entry 1 of 6   File: PGPB   Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020023215
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020023215 A1

TITLE: Electronic transaction systems and methods therefor

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2.   Document ID: US 2747794 A

L9: Entry 2 of 6   File: USPT   May 29, 1956

US-PAT-NO: 2747794
DOCUMENT-IDENTIFIER: US 2747794 A

TITLE: TEXT AVAILABLE IN USOCR DATABASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 3.   Document ID: AU 2002247213 A1, US 20020023215 A1, WO 200269291 A2, TW 560159 A

L9: Entry 3 of 6   File: DWPI   Sep 12, 2002

DERWENT-ACC-NO: 2002-267483
DERWENT-WEEK: 200433
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TITLE: Electronic transaction request approval in portable electronic authorization device, involves decrypting private key of specific user of PEAD using decryption key of remote server, if transaction request is user approved

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 4.   Document ID: FR 2747794 A1

L9: Entry 4 of 6   File: DWPI   Oct 24, 1997

DERWENT-ACC-NO: 1997-539067
DERWENT-WEEK: 199750
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TITLE: Terrestrial seismic reflection survey - having distance between implanted geophones and firing points increased n times, with unchanged mirror points and degree of multiple cover

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

☐ 5. Document ID: DE 2747794 A, FR 2407540 A, GB 1602671 A, GB 1602672 A, US 4295127 A

L9: Entry 5 of 6   File: DWPI   May 3, 1979

DERWENT-ACC-NO: 1979-E1135B
DERWENT-WEEK: 197919
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TITLE: Large traffic control signal - has display elements movable by electromagnets between two signalling positions

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

☐ 6. Document ID: US 2747794 A

L9: Entry 6 of 6   File: USOC   May 29, 1956

PAT-NO: 2747794
DOCUMENT-IDENTIFIER: US 2747794 A
TITLE: OCR SCANNED DOCUMENT

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L6 and (cell$ and transaction)	6

Display Format: TI   Change Format

<u>Previous Page</u>   <u>Next Page</u>   <u>Go to Doc#</u>

☐ ▓▓Generate Collection▓▓   ▓Print▓

L4: Entry 8 of 8   File: DWPI   Sep 12, 2002

DERWENT-ACC-NO: 2002-267483
DERWENT-WEEK: 200433
COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Electronic transaction request approval in portable electronic authorization
device, involves decrypting private key of specific user of PEAD using decryption
key of remote server, if transaction request is user approved

INVENTOR: DING, J C; GRIZZARD, J A ; WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), DING J C (DINGI), GRIZZARD J A (GRIZI), WANG Y
P (WANGI)

PRIORITY-DATA: 2001US-0792224 (February 23, 2001), 1996US-0759555 (December 4,
1996), 1998US-0067176 (April 27, 1998), 2000US-0523825 (March 13, 2000), 2000US-
0668213 (September 22, 2000)

▓▓Search Selected▓▓   ▓▓Search ALL▓▓   ▓▓Clear▓▓

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐ AU 2002247213 A1	September 12, 2002		000	G07F019/00
☐ US 20020023215 A1	February 21, 2002		035	H04L009/00
☐ WO 200269291 A2	September 6, 2002	E	000	G07F019/00
☐ TW 560159 A	November 1, 2003		000	H04L009/32

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN
TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE
LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002247213A1	February 22, 2002	2002AU-0247213	
AU2002247213A1		WO 200269291	Based on
US20020023215A1	December 4, 1996	1996US-0759555	Cont of
US20020023215A1	April 27, 1998	1998US-0067176	CIP of
US20020023215A1	March 13, 2000	2000US-0523825	CIP of
US20020023215A1	September 22, 2000	2000US-0668213	CIP of
US20020023215A1	February 23, 2001	2001US-0792224	
US20020023215A1		US 5917913	Cont of

INT-CL (IPC): <u>G07</u> <u>F</u> <u>19</u>/<u>00</u>; <u>H04</u> <u>K</u> <u>1</u>/<u>00</u>; <u>H04</u> <u>L</u> <u>9</u>/<u>00</u>; <u>H04</u> <u>L</u> <u>9</u>/<u>32</u>; <u>H04</u> <u>L</u> <u>12</u>/<u>00</u>

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-740281 ;2003-220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020023215A
BASIC-ABSTRACT:

NOVELTY - The portable electronic <u>authorization</u> device (<u>PEAD</u>) (200) receives the transaction request in the form of digital data. If the transaction request is approved by a user of the <u>PEAD,</u> the private key of the specific user is decrypted using the decryption key of a remote server. The decrypted digital data is transmitted to the electronic transaction system for encryption by the user private key.

USE - For electronic transactions through computer networks like Internet, automated teller machines, automated point-of-sale systems and automated library systems.

ADVANTAGE - Eliminates risk of unauthorized access to the account of the user and unauthorized procurement of user identity. Is portable and permits user to perform transaction authentication, conveniently and comfortably.

DESCRIPTION OF DRAWING(S) - The figure shows the <u>PEAD</u> for securely approving transactions conducted by electronic transaction system.

Portable electronic <u>authorization</u> device 200

ABSTRACTED-PUB-NO: US20020023215A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/13

DERWENT-CLASS: T01 T05 W01
EPI-CODES: T01-N01A1; T05-L01D; T05-L02; T05-L03C1; W01-A05B;

L4: Entry 4 of 8   File: USPT   Feb 1, 2005

US-PAT-NO: 6850916
DOCUMENT-IDENTIFIER: US 6850916 B1

TITLE: Portable electronic charge and authorization devices and methods therefor

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun Paul	Cupertino	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Esignx Corporation	Cupertino	CA			02

APPL-NO: 09/260384   [PALM]
DATE FILED: March 2, 1999

PARENT-CASE:
This application is a continuation-in-part of a patent application entitled
"Electronic Transaction Systems and Methods Therefor," filed Apr. 27, 1998 by
inventor Ynjiun P. Wang (U.S. application Ser. No. 09/067,176)

INT-CL-ISSUED: [07] G06 F 17/60

US-CL-ISSUED: 705/64; 705/67, 705/75, 705/76, 235/380, 235/379
US-CL-CURRENT: 705/64; 235/379, 235/380, 705/67, 705/75, 705/76

FIELD-OF-CLASSIFICATION-SEARCH: 705/1, 705/26, 705/64, 705/67, 705/75-76, 380/30,
380/285, 235/379, 235/380, G06F 1760, G06F017/60
See application file for complete search history.

PRIOR-ART-DISCLOSED:

                    U.S. PATENT DOCUMENTS

        ▓▓▓Search Selected▓▓▓   ▓▓▓Search ALL▓▓▓   ▓▓Clear▓▓

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4701601	October 1987	Francini et al.	235/449
☐	4791283	December 1988	Burkhardt	235/438
☐	4868376	September 1989	Lessin et al.	235/492
☐	5373561	December 1994	Haber et al.	380/49

☐	5416842	May 1995	Aziz	380/30
☐	5440633	August 1995	Augustine et al.	380/23
☐	5455863	October 1995	Brown et al.	380/23
☐	5524052	June 1996	Augustine et al.	380/49
☐	5548106	August 1996	Liang et al.	235/454
☐	5623637	April 1997	Jones et al.	395/491
☐	5721781	February 1998	Deo et al.	380/25
☐	5724423	March 1998	Khello	380/23
☐	5748737	May 1998	Daggar	380/24
☐	5815657	September 1998	Williams et al.	395/186
☐	5841886	November 1998	Rhoads	382/115
☐	5875394	February 1999	Daly et al.	455/411
☐	5901228	May 1999	Crawford	380/25
☐	5907142	May 1999	Kelsey	235/380
☐	5910987	June 1999	Ginter et al.	705/30
☐	5917913	June 1999	Wang	705/75
☐	5963924	October 1999	Williams et al.	705/39
☐	6000607	December 1999	Ohki et al.	235/379
☐	6006328	December 1999	Drake	713/200
☐	6016484	January 2000	Williams et al.	705/40
☐	6088687	July 2000	Leleu	
☐	6195177	February 2001	Marechal	358/434
☐	6523119	February 2003	Pavlin et al.	713/192

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
261030	March 1988	EP	
11252069	September 1999	JP	
WO 9825371	June 1998	WO	
WO 9946691	September 1999	WO	
WO 0052866	September 2000	WO	

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Kawase et al., Proposal of secure remote access using encryption, IEEE Globecom 1998 conference, vol. 2, pp. 868-873, Dec. 8, 1998 (Dialog file 2).*
Elsbury, Personal authentication devices--data security applications, Proc. of the 5th IFIP Inter. Conf., pp. 471-478, May 19, 1988 (Dialog file 2).*
Smith, A new authentication device, Electronic banking & finance, v2 n3, pp. 4-5, May 1985 (Dialog files 2).*
Sandlund, Pick a card, any card (PCMCIA card devices . . .), PC Computing, v7 n11,

p172(12), Nov. 1994 (Dialog file 275).*
Carol H. Fancher, "In your pocket smartcards," Electronic Payments, IEEE Spectrum,
Feb. 1997, Motorola, Inc., pp. 47-53.

ART-UNIT: 3625

PRIMARY-EXAMINER: Nguyen; Cuong H.

ATTY-AGENT-FIRM: Moser Patterson & Sheridan LLP

ABSTRACT:

A portable transaction arrangement for permitting a user to conduct a charge card
transaction vis-a-vis a charge card terminal of an electronic transaction system.
The charge card terminal is configured to communicate with a charge card for the
purpose of conducting the charge card transaction. The charge card is one of a
magnetic stripe card and an electronic smart card. The portable transaction
arrangement includes an emulation card having an emulation card interface. The
emulation card interface emulates an interface of the charge card. The interface of
the charge card facilitates communication between the charge card and the charge
card terminal. There is also included a portable emulation card configuring device
arranged to be used in conjunction with the emulation card, which in turn includes
a memory configured to store first charge card data pertaining to a first charge
card of the user, and an authentication mechanism. The portable emulation card
configuring device is configured to write from the memory the first charge card
data to the emulation card if the user is authenticated through the authentication
mechanism, thereby allowing the emulation card to appear through the emulation card
interface, after writing and for the purpose of conducting the transaction, like
the first charge card to the charge card terminal and enabling the charge card
terminal to read the first charge card data from the emulation card to conduct the
charge card transaction.

14 Claims, 15 Drawing figures

L4: Entry 5 of 8   File: USPT   Jul 15, 2003

US-PAT-NO: 6594759
DOCUMENT-IDENTIFIER: US 6594759 B1

TITLE: Authorization firmware for conducting transactions with an electronic
transaction system and methods therefor

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun P.	Cupertino	CA		

ASSIGNEE-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Esignx Corporation	Cupertino	CA			02

APPL-NO: 09/222368   [PALM]
DATE FILED: December 29, 1998

PARENT-CASE:
This application is a continuation of a patent application entitled "Portable
Electronic Authorization Devices and Methods Therefor," filed Dec. 4, 1996 by
inventor Ynjiun P. Wang (U.S. application Ser. No. 08/759,555) now U.S. Pat. No.
5,917,913

INT-CL-ISSUED: [07] H04 L 9/30, H04 L 12/22

US-CL-ISSUED: 713/182; 713/150, 713/161, 713/172, 380/277
US-CL-CURRENT: 713/182; 380/277, 713/150, 713/161, 713/172

FIELD-OF-CLASSIFICATION-SEARCH: 713/157, 713/150, 713/161, 713/172, 713/182,
713/184, 380/30, 380/247
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5373561	December 1994	Haber et al.	380/49
☐	5416842	May 1995	Aziz	380/30
☐	5440633	August 1995	Augustine et al.	380/23

	5455863	October 1995	Brown et al.	380/23
☐	5524052	June 1996	Augustine et al.	380/49
☐	5548106	August 1996	Liang et al.	235/454
☐	5586304	December 1996	Stupek et al.	717/170
☐	5623637	April 1997	Jones et al.	380/23
☐	5724423	March 1998	Khello	380/23
☐	5796840	August 1998	Davis	705/51
☐	5841865	November 1998	Sudia	380/21
☐	5844986	December 1998	Davis	713/187
☐	5848155	December 1998	Cox	380/28
☐	5917913	June 1999	Wang	380/25
☐	6088687	July 2000	Leleu	
☐	6510519	January 2003	Wasilewski et al.	713/168

OTHER PUBLICATIONS

The NPL Intelligent Token and Its Application, Wyn L. Price, National Physical Laboratory, Teddington, UK, Eurocrypt 1986.
Carol H. Fancher, "In your pocket smartcards," Electronic Payments, IEEE Spectrum, Feb. 1997, Motorola, Inc., pp. 47-53.

ART-UNIT: 2132

PRIMARY-EXAMINER: Barron; Gilberto

ASSISTANT-EXAMINER: Zand; Kambiz

ATTY-AGENT-FIRM: Moser, Patterson & Sheridan, LLP

ABSTRACT:

A computer configured to authenticate a user to an electronic transaction system is disclosed. The computer includes a central processing unit and electronic authorization firmware disposed within the computer and in electronic communication with the central processing unit. The electronic authorization firmware includes a non-volatile memory circuit configured to store at least one of a user private key and user identification data and a firmware identification data. The electronic authorization firmware further includes decryption logic circuitry disposed between the non-volatile memory circuit and the electronic transaction system. The decryption logic circuitry is configured to prevent unauthorized access to at least one of the user private key and the user identification data in the non-volatile memory circuit. The electronic authorization firmware also includes encryption logic circuit coupled to the electronic transaction system and configured to transmit digital data encrypted using the user private key for transmission to the electronic transaction system. The digital data authenticates the user to the electronic transaction system, wherein the non-volatile memory is inaccessible by the central processing unit without traversing the decryption logic circuitry.

25 Claims, 14 Drawing figures

L4: Entry 6 of 8   File: DWPI   Oct 8, 2003

DERWENT-ACC-NO: 2002-740281
DERWENT-WEEK: 200432
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TITLE: Internet-based secure message reception method involves decrypting digital
data representing secure message if share secret is found in share secret table in
portable electronic authorization device

INVENTOR: WANG, Y P

PATENT-ASSIGNEE: ESIGN CORP (ESIGN), WANG Y P (WANGI)

PRIORITY-DATA: 2001US-0026848 (December 21, 2001), 1998US-0067176 (April 27, 1998)

Search Selected   Search ALL   Clear

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	AU 2002367640 A1	October 8, 2003		000	G06F017/60
☐	US 20020123967 A1	September 5, 2002		029	G06F017/60
☐	WO 2003081377 A2	October 2, 2003	E	000	G06F000/00

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN
TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU2002367640A1	December 18, 2002	2002AU-0367640	
AU2002367640A1		WO2003081377	Based on
US20020123967A1	April 27, 1998	1998US-0067176	CIP of
US20020123967A1	December 21, 2001	2001US-0026848	
US20020123967A1		US 6282656	CIP of
WO2003081377A2	December 18, 2002	2002WO-US40616	

INT-CL (IPC): G06 F 0/00; G06 F 17/60

RELATED-ACC-NO: 1998-333677;2001-102124 ;2001-501645 ;2002-267483 ;2003-
220737 ;2003-707494

ABSTRACTED-PUB-NO: US20020123967A

BASIC-ABSTRACT:

NOVELTY - A share secret is searched from a share secret table in a portable
electronic <u>authorization</u> device (<u>PEAD</u>) (200). Received digital data representing a
secure message, is decrypted, if the share secret is found otherwise a share secret
is computed in the <u>PEAD</u>.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Internet-based secure message transmission method; and

(2) Internet-based secure message exchanging method.

USE - For receiving a secure message pertaining to an electronic transaction
conducted over Internet.

ADVANTAGE - Allows transaction approvals to occur within the portable electronic
<u>authorization</u> device (<u>PEAD</u>), hence enhances the confidentiality of the user
identification data and the user's private key and enhances the integrity of the
transaction process.

DESCRIPTION OF DRAWING(S) - The figure shows a portable electronic <u>authorization</u>
device.

Portable electronic <u>authorization</u> device 200

ABSTRACTED-PUB-NO: US20020123967A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/12

DERWENT-CLASS: T01 T05
EPI-CODES: T01-J05B3; T01-M06A1A; T01-N01A1; T05-L02;

L4: Entry 7 of 8   File: DWPI   Aug 28, 2002

DERWENT-ACC-NO: 2003-020344
DERWENT-WEEK: 200302
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TITLE: Electronic trade system and its method business transaction between an
electronic trading system with electronic service authorization signature being
used and a portable electronic authorization device

PATENT-ASSIGNEE: ESIGN CO (ESIGN)

PRIORITY-DATA: 2001CN-0101983 (January 18, 2001)

Search Selected   Search ALL   Clear

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	CN 1366263 A	August 28, 2002		000	G06F017/60

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1366263A	January 18, 2001	2001CN-0101983	

INT-CL (IPC): G06 F 13/14; G06 F 17/60; G06 K 9/00; H04 L 9/00

ABSTRACTED-PUB-NO: CN 1366263A
BASIC-ABSTRACT:

NOVELTY - The invention discloses a method its and device for examining and
approving request of business transaction between an electronic trading system with
electronic service authorization signature being used and a portable electronic
authorization device (PEAD) carried by a user. The method includes PEAD accepts a
first digital receipt representing request of business transaction. The PEAD
provides an information of approving request for the user. When the user approves
the request, the PEAD accepts a second digital receipt representing electronic
service authorization signature. The invention includes a remote agent acting as a
bridge between the electronic trading system and the PEAD. The invented method and
device can be used in sales point, providing trading capability safely and
expediently.

ABSTRACTED-PUB-NO: CN 1366263A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: T01 T05
EPI-CODES: T01-N01A1; T01-N02B1B; T05-L02;

Hit List

Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1.   Document ID: US 6282656 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 21   File: USPT   Aug 28, 2001

US-PAT-NO: 6282656
DOCUMENT-IDENTIFIER: US 6282656 B1

TITLE: Electronic transaction systems and methods therefor

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Ynjiun Paul	Cupertino	CA	95014	

US-CL-CURRENT: 726/4; 713/182, 713/187, 726/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw C·

☐ 2.   Document ID: US 6231871 B1

L1: Entry 2 of 21   File: USPT   May 15, 2001

US-PAT-NO: 6231871
DOCUMENT-IDENTIFIER: US 6231871 B1

TITLE: Live in ovo vaccine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw C·

☐ 3.   Document ID: US 6175922 B1

L1: Entry 3 of 21   File: USPT   Jan 16, 2001

US-PAT-NO: 6175922
DOCUMENT-IDENTIFIER: US 6175922 B1

TITLE: Electronic transaction systems and methods therefor

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw C·

☐ 4. Document ID: US 5917913 A

L1: Entry 4 of 21   File: USPT   Jun 29, 1999

US-PAT-NO: 5917913
DOCUMENT-IDENTIFIER: US 5917913 A

TITLE: Portable electronic authorization devices and methods therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw C

☐ 5. Document ID: US 5641480 A

L1: Entry 5 of 21   File: USPT   Jun 24, 1997

US-PAT-NO: 5641480
DOCUMENT-IDENTIFIER: US 5641480 A

TITLE: Hair care compositions comprising heteroatom containing alkyl aldonamide compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw C

☐ 6. Document ID: CN 1452739 A, US 6175922 B1, WO 200169388 A1, AU 200120597 A, CN 1360265 A, EP 1272933 A1, KR 2002081435 A, TW 487864 A, JP 2003527714 W

L1: Entry 6 of 21   File: DWPI   Oct 29, 2003

DERWENT-ACC-NO: 2001-501645
DERWENT-WEEK: 200409
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TITLE: Approval of transaction request between electronic transaction system and portable electronic authorization device, involves sending PEAD electronic service authorization token upon approval of request

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw C

☐ 7. Document ID: US 6850916 B1, WO 200052866 A2, AU 200040043 A, EP 1159700 A2, KR 2001108292 A, CN 1344396 A, JP 2003517658 W

L1: Entry 7 of 21   File: DWPI   Feb 1, 2005

DERWENT-ACC-NO: 2001-102124
DERWENT-WEEK: 200511
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TITLE: Portable transaction arrangement of electronic transaction system, has portable emulation card configuring device to write charge card data from memory to

emulation card if user is authenticated

☐ 8.   Document ID: US 3218439 A

L1: Entry 8 of 21   File: USOC   Nov 16, 1965

US-PAT-NO: 3218439
DOCUMENT-IDENTIFIER: US 3218439 A

TITLE: Vote tallying machine

DATE-ISSUED: November 16, 1965

INVENTOR-NAME: GEROLD HOLZER; HARRY WILCOCK

US-CL-CURRENT: 235/386

☐ 9.   Document ID: US 3071335 A

L1: Entry 9 of 21   File: USOC   Jan 1, 1963

US-PAT-NO: 3071335
DOCUMENT-IDENTIFIER: US 3071335 A

TITLE: Flight control system

DATE-ISSUED: January 1, 1963

INVENTOR-NAME: CARTER JR EDWARD S

US-CL-CURRENT: 244/175; 244/17.13, 342/63

☐ 10.   Document ID: US 2988192 A

L1: Entry 10 of 21   File: USOC   Jun 13, 1961

US-PAT-NO: 2988192
DOCUMENT-IDENTIFIER: US 2988192 A

TITLE: Locking mechanism for chair seats

DATE-ISSUED: June 13, 1961

INVENTOR-NAME: HOWER JAMES H

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | PMC | Draw (-

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Terms	Documents
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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11.   Document ID: US 2976354 A

Using default format because multiple data bases are involved.

L1: Entry 11 of 21   File: USOC   Mar 21, 1961

US-PAT-NO: 2976354
DOCUMENT-IDENTIFIER: US 2976354 A

TITLE: Tape recording and translating and the like

DATE-ISSUED: March 21, 1961

INVENTOR-NAME: BANNING JR THOMAS A; RANSEEN EMIL L

US-CL-CURRENT: 360/116, 347/120, 386/43, 455/127.1, 455/185.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D. |

☐ 12.   Document ID: US 2750277 A

L1: Entry 12 of 21   File: USOC   Jun 12, 1956

US-PAT-NO: 2750277
DOCUMENT-IDENTIFIER: US 2750277 A

TITLE: Process and apparatus for reducing and smelting iron

DATE-ISSUED: June 12, 1956

INVENTOR-NAME: MARSHALL WILLIAM E

US-CL-CURRENT: 75/443; 266/157, 266/163, 266/171, 266/172, 266/173, 266/175, 75/446, 75/475

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D. |

☐ 13.   Document ID: US 2747794 A

L1: Entry 13 of 21   File: USOC   May 29, 1956

US-PAT-NO: 2747794
DOCUMENT-IDENTIFIER: US 2747794 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: May 29, 1956

INVENTOR-NAME: Name not available

US-CL-CURRENT: <u>235</u>/<u>60.28</u>; <u>101</u>/<u>93.35</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 14.   Document ID: US 2636435 A

L1: Entry 14 of 21   File: USOC   Apr 28, 1953

US-PAT-NO: 2636435
DOCUMENT-IDENTIFIER: US 2636435 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: April 28, 1953

INVENTOR-NAME: Name not available

US-CL-CURRENT: <u>101</u>/<u>93.36</u>; <u>101</u>/<u>93.11</u>, <u>101</u>/<u>93.12</u>, <u>235</u>/<u>3</u>, <u>235</u>/<u>60.31</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 15.   Document ID: US 2630269 A

L1: Entry 15 of 21   File: USOC   Mar 3, 1953

US-PAT-NO: 2630269
DOCUMENT-IDENTIFIER: US 2630269 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: March 3, 1953

INVENTOR-NAME: Name not available

US-CL-CURRENT: <u>235</u>/<u>426</u>; <u>235</u>/<u>431</u>

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 16.   Document ID: US 2562567 A

L1: Entry 16 of 21   File: USOC   Jul 31, 1951

US-PAT-NO: 2562567
DOCUMENT-IDENTIFIER: US 2562567 A

TITLE: Momentary control switch

DATE-ISSUED: July 31, 1951

INVENTOR-NAME: SYDNEY MOLEDZKY

US-CL-CURRENT: 200/61.51; 340/440

`Full | Title | Citation | Front | Review | Classification | Date | Reference | ▓▓▓▓ | ▓▓▓▓ | Claims | KWIC | Draw D`

☐ 17. Document ID: US 2540030 A

L1: Entry 17 of 21   File: USOC   Jan 30, 1951

US-PAT-NO: 2540030
DOCUMENT-IDENTIFIER: US 2540030 A

TITLE: Selectively controlled recording apparatus

DATE-ISSUED: January 30, 1951

INVENTOR-NAME: HAMILTON FRANCIS E; HAYES MAXWELL F ; WOLFE JOHN D

US-CL-CURRENT: 400/68, 235/489, 400/63, 400/71, 400/80

`Full | Title | Citation | Front | Review | Classification | Date | Reference | ▓▓▓▓ | ▓▓▓▓ | Claims | KWIC | Draw D`

☐ 18. Document ID: US 2443652 A

L1: Entry 18 of 21   File: USOC   Jun 22, 1948

US-PAT-NO: 2443652
DOCUMENT-IDENTIFIER: US 2443652 A

TITLE: Totalizer engaging mechanism

DATE-ISSUED: June 22, 1948

INVENTOR-NAME: CAREY EDWARD J

US-CL-CURRENT: 235/60.31; 235/2, 473/71

`Full | Title | Citation | Front | Review | Classification | Date | Reference | ▓▓▓▓ | ▓▓▓▓ | Claims | KWIC | Draw D`

☐ 19. Document ID: US 2378820 A

L1: Entry 19 of 21   File: USOC   Jun 19, 1945

US-PAT-NO: 2378820
DOCUMENT-IDENTIFIER: US 2378820 A

TITLE: Lubricating oil

DATE-ISSUED: June 19, 1945

INVENTOR-NAME: EARL AMOTT

US-CL-CURRENT: <u>508</u>/<u>313</u>; <u>252</u>/<u>389.22</u>, <u>508</u>/<u>353</u>, <u>508</u>/<u>390</u>, <u>508</u>/<u>417</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 20. Document ID: US 2217244 A

US-PAT-NO: 2217244
DOCUMENT-IDENTIFIER: US 2217244 A

TITLE: Weighing scale

DATE-ISSUED: October 8, 1940

INVENTOR-NAME: WILLIAMS LAWRENCE S

US-CL-CURRENT: <u>177</u>/<u>173</u>; <u>177</u>/<u>178</u>, <u>177</u>/<u>224</u>, <u>353</u>/<u>40</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

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Terms	Documents
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